

AZL Workgroup

Advanced Thermoset Production

AZL is the
OFFICIAL CENTER of

**RWTHAACHEN
CAMPUS**

for Composite-based
LIGHTWEIGHT
PRODUCTION

Foto: ©Campus GmbH_Moll

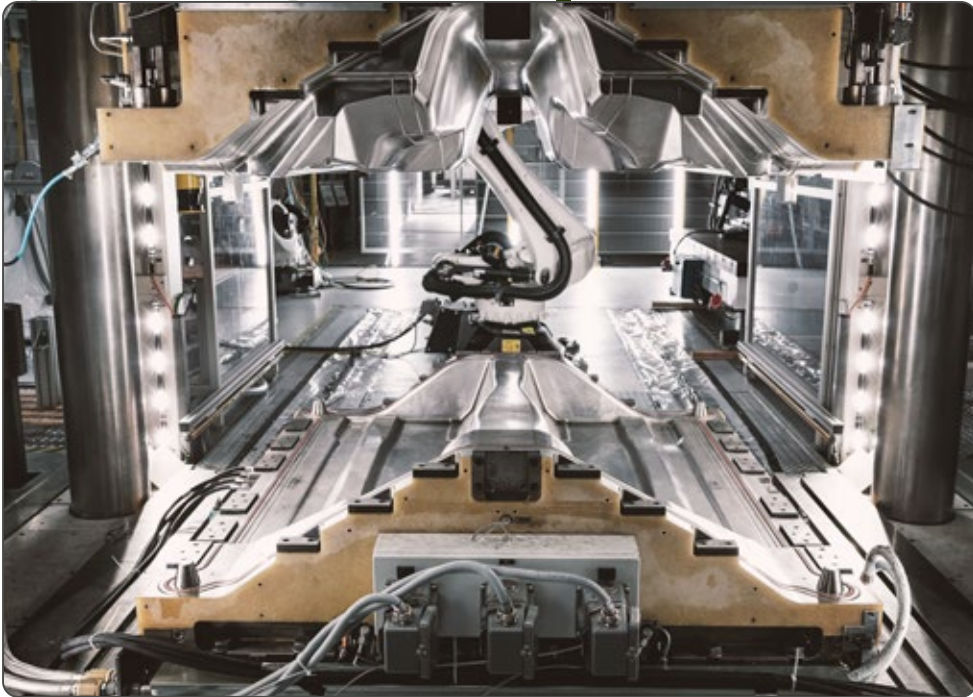
Expert &
Business
Community



We focus on latest technological developments related to processes and applications for all kinds of relevant thermoset composite molding technologies

AZL Aachen GmbH

Excellence in Lightweight Production



The topics discussed in the workgroup lead to diverse types of cooperation, from one-to-one business to large-scale R&D projects. The so initialized project "iComposite4.0 - Development of an integrative and self-regulating production system for structural composite parts" addressed the workgroup topics of production, automation, digitalization, multi-material design and scrap reduction. Besides offering the platform for implementing the technologies, the project provided public funding to the partners and established business connections.

More info:



Connecting Science, Engineering and Production

The workgroup was formed in 2018 from its predecessor group "High-Speed RTM Matrices" and focuses on the analysis of potential new processes and applications from the field of all relevant thermoset composite molding technologies. From RTM to pultrusion, filament winding and compression molding to resin infusion and AFP/ATL, the AZL Workgroup develops new impulses and projects in two annual meetings.

Roadmap & Topics

After developing a Model Material Data Sheet (M-MDS) for RTM in 2018, the group has created a roadmap for structural thermoset parts.

With the experience of 5 already publicly funded projects the group will focus on the fields of pultrusion, filament winding, compression molding, resin infusion, AFP/ATL and prepreg technology.

Fast Resins

Automation
& Quality
Assurance

Economic
Preform
Production

Process
Simulation

Scrap
Reduction



Material	Cost
Material Cost (€/kg)	10.50
Processing Cost (€/kg)	1.20
Preform Cost (€/kg)	1.34



Impulses for
Research



Identification of
Pre-Competitive Topics



Initialization of
Projects



Meeting every
6 Months



Find more information about our AZL Workgroups

In cooperation with



What our Workgroup is all about

The primary goal of the AZL Workgroups is to network active partners from research and industry, from production and application development in the field of advanced thermoset production.

The activities go far beyond pure networking. The definition of real goals and initiatives and the regular exchange lead again and again to new processes, products and collaboration and make the AZL Workgroups so unique.

Business Platform "High-Speed RTM"

AZL Business Platforms were built in addition to the r&d activities of AZL Workgroups and provide you with details on lightweight technologies: Get focused information on highlight lightweight technologies, find a broad range of service and products along the entire value chain, explore use cases to learn on present realized applications and technology solutions, contact your business partners for your individual lightweight solution.

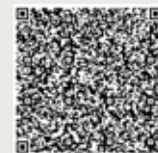
Visit us at www.high-speed-rtm.com

Join the Network of more than 80 active Partners:



About AZL

AZL stands for excellence in lightweight production. As a one stop shop for market and technology know how, the senior staff of AZL brings together experts and decision makers from academia and industry to support business and technology development for the lightweight industry. We support you, regardless of your position in the value chain, in the development, benchmarking and improvement of your design methodologies, manufacturing techniques and products.



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